# Transducer UVA in AS102 housing
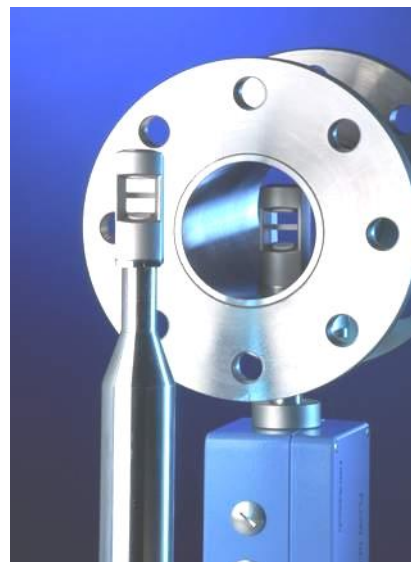
## höntzsch
### flow measuring technology

_____

**Parameterizable transducer UVA in IP65 aluminium housing
for use with vortex flow sensors VA40 and VA Di
for measuring flow rate and flow velocity**



UVA in AS102 housing



UVA with probe VA40 and
measuring tube VA Di

## Properties

- for measuring flow velocity and flow rate
- compatible for all Höntzsch VA40 probes and VA Di measuring tubes
- flexible use via PC interface for modification of calibration and parameter data

- easy to read, optional LCD with instantaneous value, quantity counter und error code
- potential-free quantity pulse or limit value output
- permanent self-diagnosis

- conversion from actual to standard flow velocity or flow rate
- robust IP65 aluminium housing
- highly reliable even in extreme industrial application conditions

## Model designation (example)

| UVA | 4-20 mA | 230 VAC | AS102 |
|:---:|:---:|:---:|:---:|
| (1) | (2) | (3) | (4) |

## Basic types

| Type | Article No. |
|:---:|:---:|
| **'4-20 mA'** | |
| UVA / 4-20 mA / 230 VAC / AS102 | A016/001 |
| UVA / 4-20 mA / 24 VDC / AS102 | A016/002 |
| UVA / 4-20 mA / 12 VDC / AS102 | A016/003 |
| | |
| **'0-10 V'** | |
| UVA / 0-10 V / 230 VAC / AS102 | A016/004 |
| UVA / 0-10 V / 24 VDC / AS102 | A016/005 |
| UVA / 0-10 V / 12 VDC / AS102 | A016/006 |

_____

## (1) Transducer type

| | |
|---|---|
| UVA | |
| Input flow v/VA | for Höntzsch flow sensors vortex VA without integrated transducer, as probe VA40 ... and measuring tube VA Di ...; |

## (2) Outputs

| | |
|---|---|
| Analog output<br>flow velocity / flow rate | **4 ... 20 mA** = 0 ... x m/s (or m³/h),<br>parameterizable terminal values x / burden max. 400 Ohm,<br>**alternatively**:<br>**0 ... 10 V**  = 0 ... x m/s (or m³/h),<br>parameterizable terminal values x / impedance 1 kOhm |
| output either limit value<br>or quantity pulse | **relay** (potential-free normally open contact),<br>max. 300 mA / max. 27 V DC<br><br>**limit value**              (alternative 1, parameterizable):<br>flow velocity < limit value: relay rest position,<br>flow velocity > limit value: relay working position<br><br>**quantity pulse**     (alternative 2, parameterizable):<br>max. pulse repetition frequency 1 Hz per unit of volume,<br>parameterizable, e.g. 1 pulse per 1, 10 or 100 (norm)-m³,<br>pulse duration 0.5 s |
| PC interface RS232 | or modifying calibration data and parameter,<br>connection via RJ22 connecter (in the housing) |
| | output signals electrically isolated from the mains supply |
| self-diagnosis according to NAMUR NE43 | errors:<br>- with output 4-20 mA      : < 3.6 mA,<br>- with output 0-10 V        : < -0.2 V,<br>- LED shines yellow<br>power supply OK                  : LED shines green<br>with input signal 'flow' > 0 m/s: LED flashes green |

## (3) Power supply

| | |
|---|---|
| mains supply | 230 V AC    (215 ... 255 V AC), 50 ... 60 Hz, output < 10 VA<br>24 V DC    (20 ... 27 V DC),                    output <   5 W<br>12 V DC    (10 ... 17 V DC),                    output <   5 W |

## (4) Housing

| | |
|---|---|
| aluminium housing AS102 | dimensions L/B/H: 150/100/80 mm<br>bush for shielded cables with outside diameter 5 ... 10 mm,<br>contacting of Cu overall shielding by the metallic screwed cable glands |
| connection | 'Push In' terminals;<br>no tools necessary to connect conductor;<br>conductors can be separated by applying pressure with a pen or screwdriver;<br>suitable for conductors with cross sections from 0.14 ... 1.5 mm² |
| protection | IP65, IEC 529 and EN 60 529 |
| EMC | EN 61 000-6-2 / IEC77 |
| working temperature range | without display   : -25   ... +50 °C<br>with display     : -20   ... +50 °C |

**höntzsch**

flow measuring technology

_____

| Parameter | |
|---|---|
| setting parameter as per parameter set no. 00100 | analog output, time constant, profile factor, tube inside diameter, linearization of characteristics (calibration no. or pairs of variates), limit value or quantity pulse, quality rating quantity pulse, switching actual/standard flow with setting parameters   'actual pressure' and 'actual temperature' |
| setting parameter with PC software UCOM and PC connecting cable (see Accessories) alterable | |

| Accessories (optional) | Description | Art.-No. |
|---|---|---|
| LCD in top cover | 1st row:  'instantaneous value': flow rate or flow velocity 2nd row: 'quantiy counter' or 'error code'; 2 x 16 digit, height 5.5 mm working temperature range -20 ... +50 °C | A010/016 |
| PC software UCOM | for configuring transducers UFA and UVA via RS232 interface, PC connecting cable RJ22 / Sub-D-9-pin additional requirement | A010/052 |
| PC connecting cable RJ22 / Sub-D-9-pin | for configuring transducers UFA and UVA in LDG16 or AS102 housings via RS232 interface with software UCOM; transducer connection: RJ22, PC connection: Sub-D, 9-pin | A010/051 |
| interface converter USB / RS232 | for connecting PC with USB interface and Höntzsch programming adapter with RS232 interface; PC connection: USB plug type A programming adapter connection: Sub-D 9-pin | A010/100 |
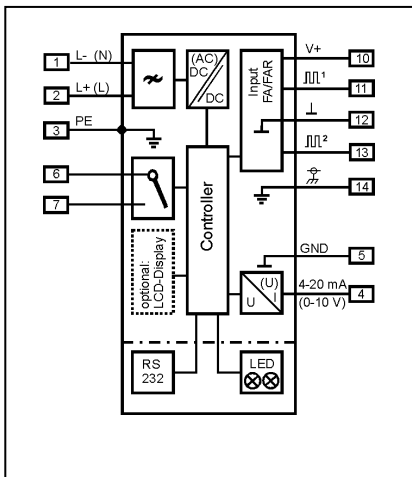


wiring diagram UVA in aluminium housing AS102



PC with configuration software UCOM



PC connecting cable with CD-ROM UCOM